**Email spam detection**

import pandas as pd

import numpy as np

from sklearn.feature\_extraction.text import Tfidf Vectorizer

from sklearn.model\_selection import train\_test\_split

from sklearn.naive\_bayes import MultinomialNB

from sklearn.metrics import accuracy\_score, classification\_report

#Load dataset

df = pd.read\_csv('email\_dataset.csv')

#Preprocess data

vectorizer = TfidfVectorizer (stop\_words='english')

X = vectorizer.fit\_transform(df['email\_content'])

y = df['label']

# Split data into training and testing sets

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.2, random\_state=42)

# Train Naive Bayes model

nb\_model = MultinomialNB()

nb\_model.fit(X\_train, y\_train)

#Evaluate model

y\_pred = nb\_model.predict(X\_test)

print('Accuracy:', accuracy\_score (y\_test, y\_pred))

print('Classification Report:')

print(classification\_report(y\_test, y\_pred))